

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

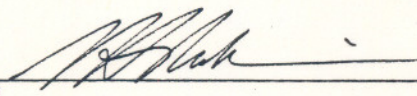
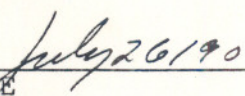
COURSE TITLE: SILVICULTURE

CODE NO.: FOR 200-4 SEMESTER: 3

PROGRAM: FORESTRY TECHNICIAN

AUTHOR: BOB CURRELL

DATE: JUNE 1990 PREVIOUS OUTLINE DATED: JUNE 1989

APPROVED:  DEAN  DATE

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JUL 23 1990
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TOTAL CREDIT HOURS: 64

PREQUISITE(S): None

I. PHILOSOPHY/GOALS:

A study of Silviculture and its place in forestry. The emphasis of the course will be to study the forest once it has been harvested, specifically it will deal with the techniques available to grow a new forest crop.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

- 1) Be able to participate effectively in carrying out silvicultural operations.
- 2) Be able to plan silvicultural projects.
- 3) Be competent to instruct unskilled silvicultural work crews.

III. TOPICS TO BE COVERED:

TOPIC NO.	TOPIC DESCRIPTION
UNIT 1	
1	Introduction to Silviculture
2	Harvesting Systems
3	Regeneration Surveys: Methods of Assessing Regeneration on Forest Land

SILVICULTURE

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III. TOPICS TO BE COVERED: (cont'd)

TOPIC NO.

TOPIC DESCRIPTION

UNIT 1

4

Site Classification: Methods of classifying the productivity of forest sites with specific reference to the FEC and FLAPs system

TEST

UNIT 2

5

Site Preparation: Methods of preparing cutover lands for subsequent regeneration. Mechanical, chemical, and prescribed burning and techniques will be examined.

TEST

UNIT 3

6

Tree Seed: forecasting, collecting and extracting tree seed.

7

Regeneration Treatments including planting and aerial seeding

8

Forest Nurseries

9

Tending the New Forest: mechanical and chemical treatments

10

Tree Improvement: discussion of common tree improvement techniques including seed orchards, and vegetative propagation.

Hybrid poplar management

TEST

COURSE NAME

IV. EVALUATION METHODS:

10%	Lab Attendance
10%	Dendrology Test (trees, shrubs, and plants)
10%	Fall Camp exercises
20%	Lab Exercises
50%	Unit Tests (3) following each unit

100%	

V. REQUIRED STUDENT RESOURCES:

Silviculture Lab Manual; 1990 edition
Compass

**VI. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY
BOOK SECTION:**

Periodical Section

Silviculture Magazine
Forestry Chronicle
Many publications on silviculture equipment by FERIC (Forest
Engineering Research Inst. of Canada)

Audiovisual section

Site preparation equipment slide set

VII. SPECIAL NOTES:

During field camp a day of silviculture tours and exercises will be held.